

Title (en)

A GEAR SYSTEM AND A METHOD FOR LUBRICATING A GEAR

Title (de)

GETRIEBESYSTEM UND VERFAHREN ZUM SCHMIEREN EINES GETRIEBES

Title (fr)

SYSTÈME D'ENGRENAGE ET PROCÉDÉ DE LUBRIFICATION D'UN ENGRENAGE

Publication

EP 3982008 A1 20220413 (EN)

Application

EP 20201277 A 20201012

Priority

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Abstract (en)

A gear system comprises at least one gear stage (103), a pump system (104) and oil channels (105) for circulating a first lubricant oil flow via first elements (107a-107c) of the gear stage and a second lubricant oil flow via second elements (109) of the gear stage, and an oil conditioning system (106) for controlling temperatures (T₁, T₂) of the first and second lubricant oil flows so that the temperatures of the first and second lubricant oil flows are different from each other and flow rates (F₁, F₂) of the first and second lubricant oil flows are different from each other. Thus, it is possible to utilize for example the fact that bearings do not need as much oil flow as gear wheels but, on the other hand, lowering oil temperature of the bearings provides more advantages than lowering oil temperature of the gear wheels.

IPC 8 full level

F16H 57/04 (2010.01)

CPC (source: BR EP KR US)

F16H 57/04 (2013.01 - BR); **F16H 57/0404** (2013.01 - KR US); **F16H 57/0412** (2013.01 - KR); **F16H 57/0413** (2013.01 - EP);
F16H 57/0415 (2013.01 - US); **F16H 57/0435** (2013.01 - EP); **F16H 57/0436** (2013.01 - KR US); **F16H 57/0469** (2013.01 - KR);
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F16H 57/0484 (2013.01 - EP)

Citation (search report)

- [XYI] US 2013288843 A1 20131031 - BAUM JOCHEN [DE], et al
- [XAY] US 2016273385 A1 20160922 - OTTO JOHN R [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3982008 A1 20220413; BR 102021018955 A2 20220426; CA 3130007 A1 20220412; CN 114352708 A 20220415;
KR 20220048429 A 20220419; US 2022112947 A1 20220414

DOCDB simple family (application)

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KR 20210117180 A 20210902; US 202117496412 A 20211007